



SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT

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**SACRAMENTO MUNICIPAL UTILITY DISTRICT
UPPER AMERICAN RIVER PROJECT**

NEW SLAB CREEK POWERHOUSE PROJECT

ITEM #2

**CROSS-SECTIONAL PROFILES AT SIX
REPRESENTATIVE SITES WITHIN THE ¼-MILE
REACH (PLUNGE POOL, HIGH GRADIENT
CASCADE, DEEP POOL MID AND TAIL-OUT, AND
TWO SITES IN LOW GRADIENT RUN BELOW
DEEP POOL)**

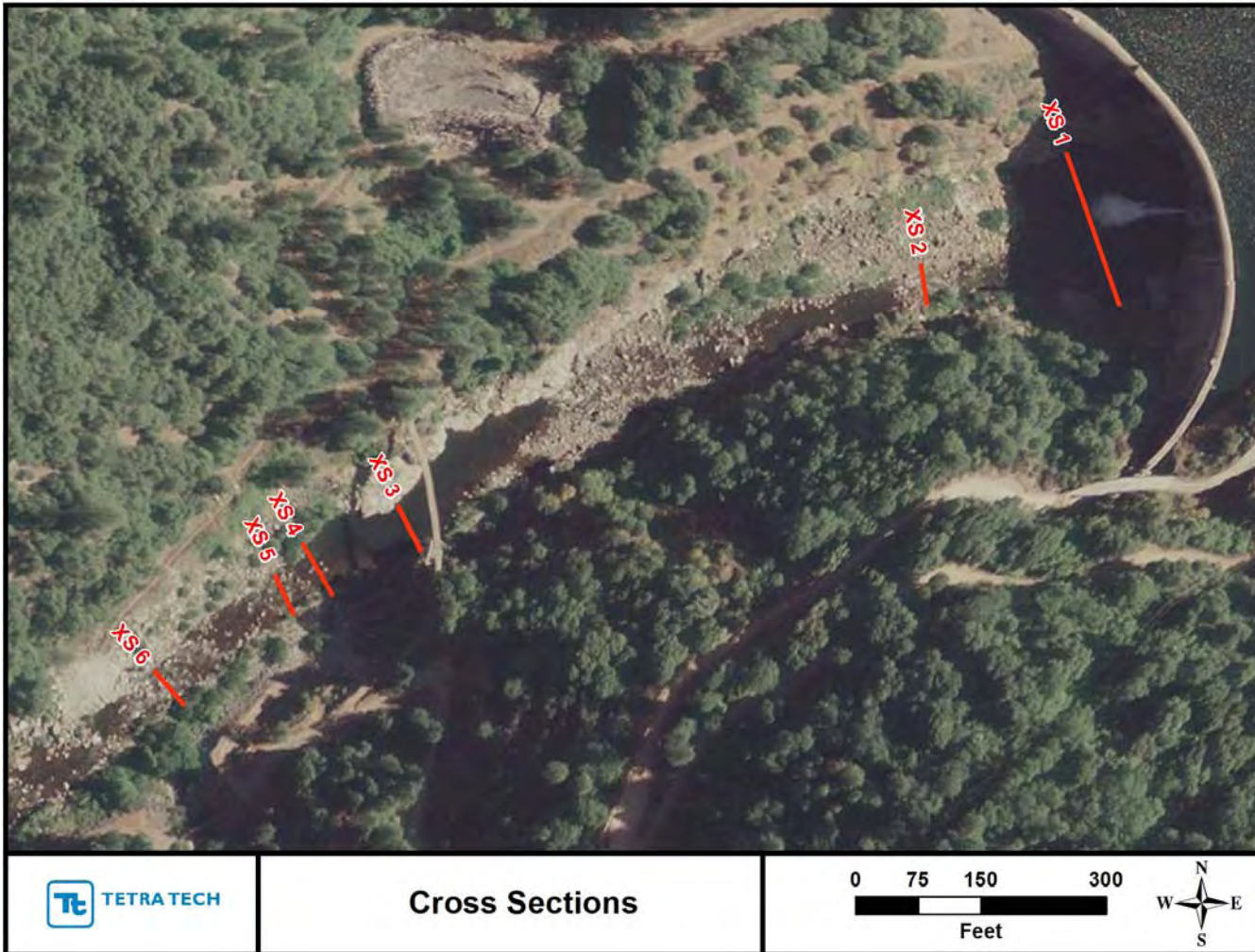


Figure 2. Location of the representative cross-sections shown in Figure 3 through 8.

Cross Section 1

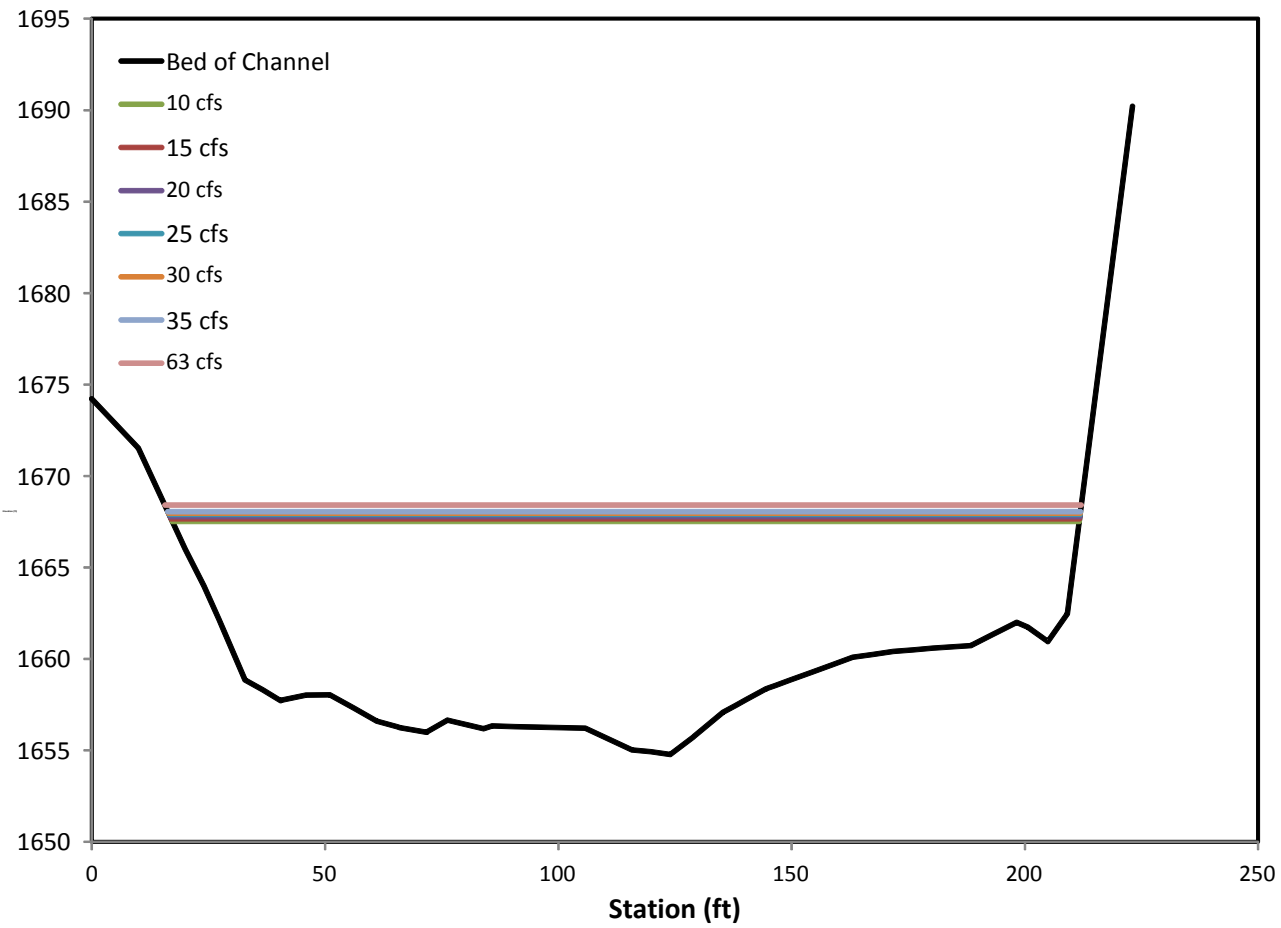


Figure 3. Comparison of predicted average water-surface elevation at Cross-Section 1 for a range of flows from 10 to 63 cfs.

Cross Section 2

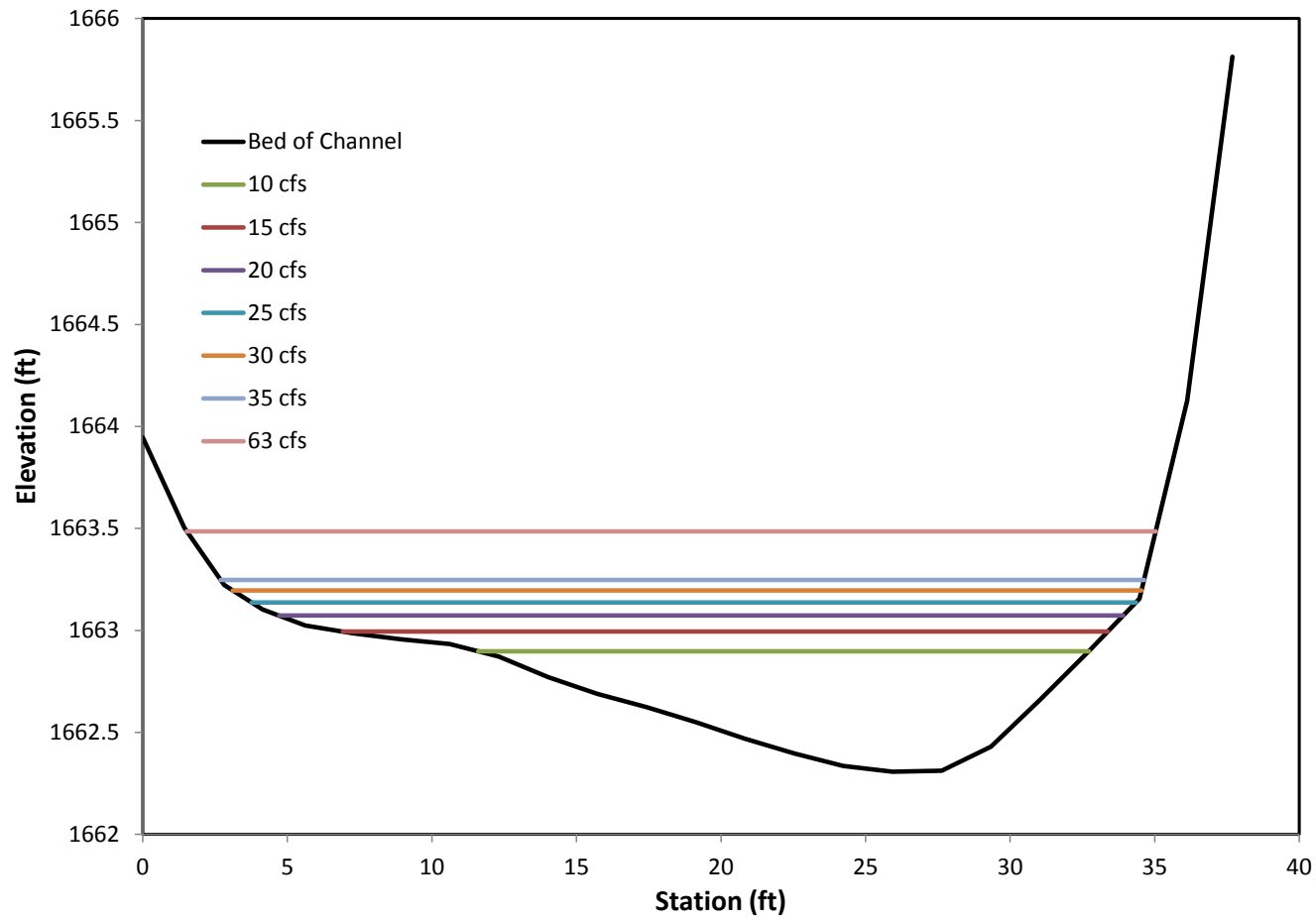


Figure 4. Comparison of predicted average water-surface elevation at Cross-Section 2 for a range of flows from 10 to 63 cfs.

Cross Section 3

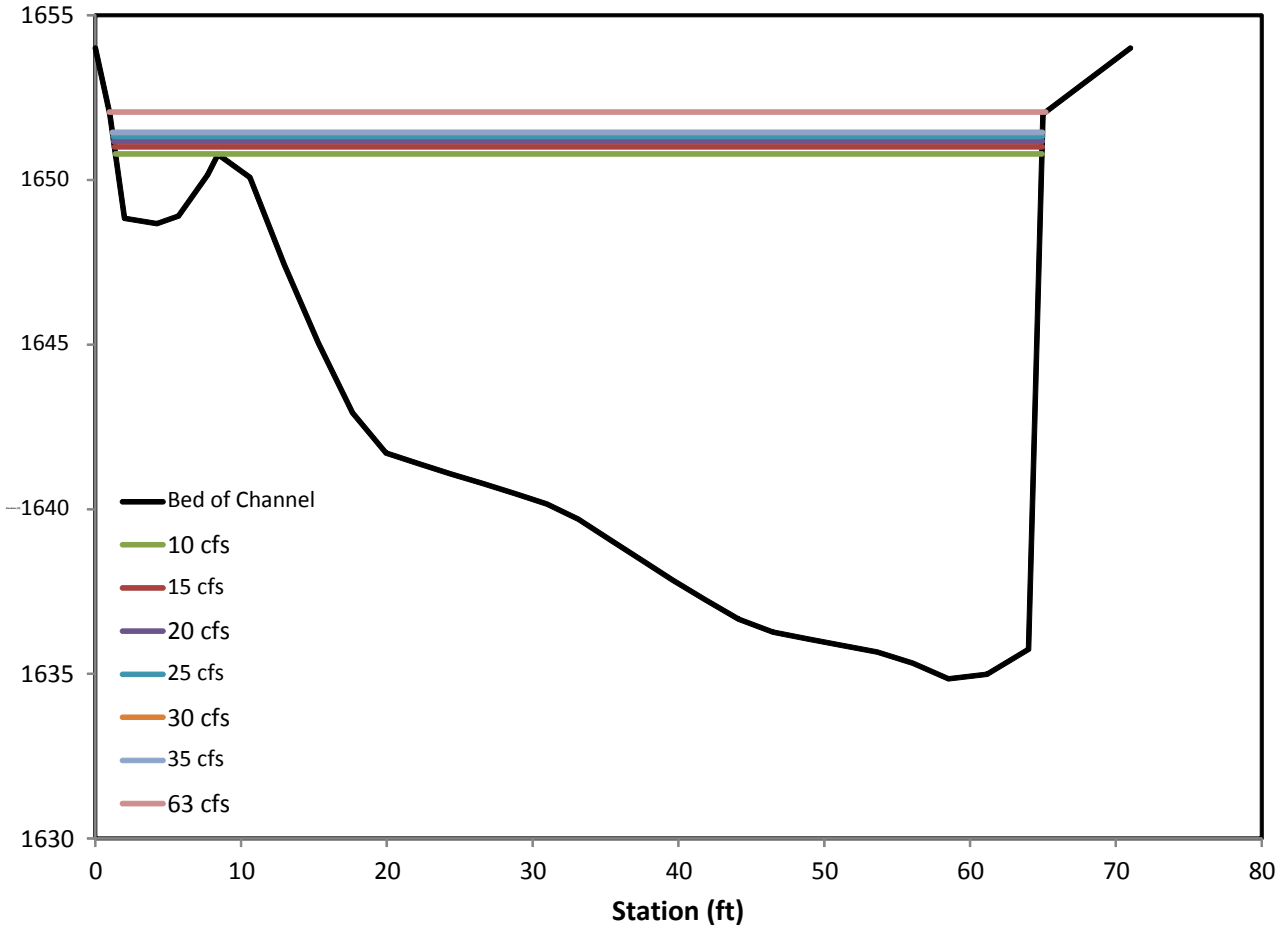


Figure 5. Comparison of predicted average water-surface elevation at Cross-Section 3 for a range of flows from 10 to 63 cfs.

Cross Section 4

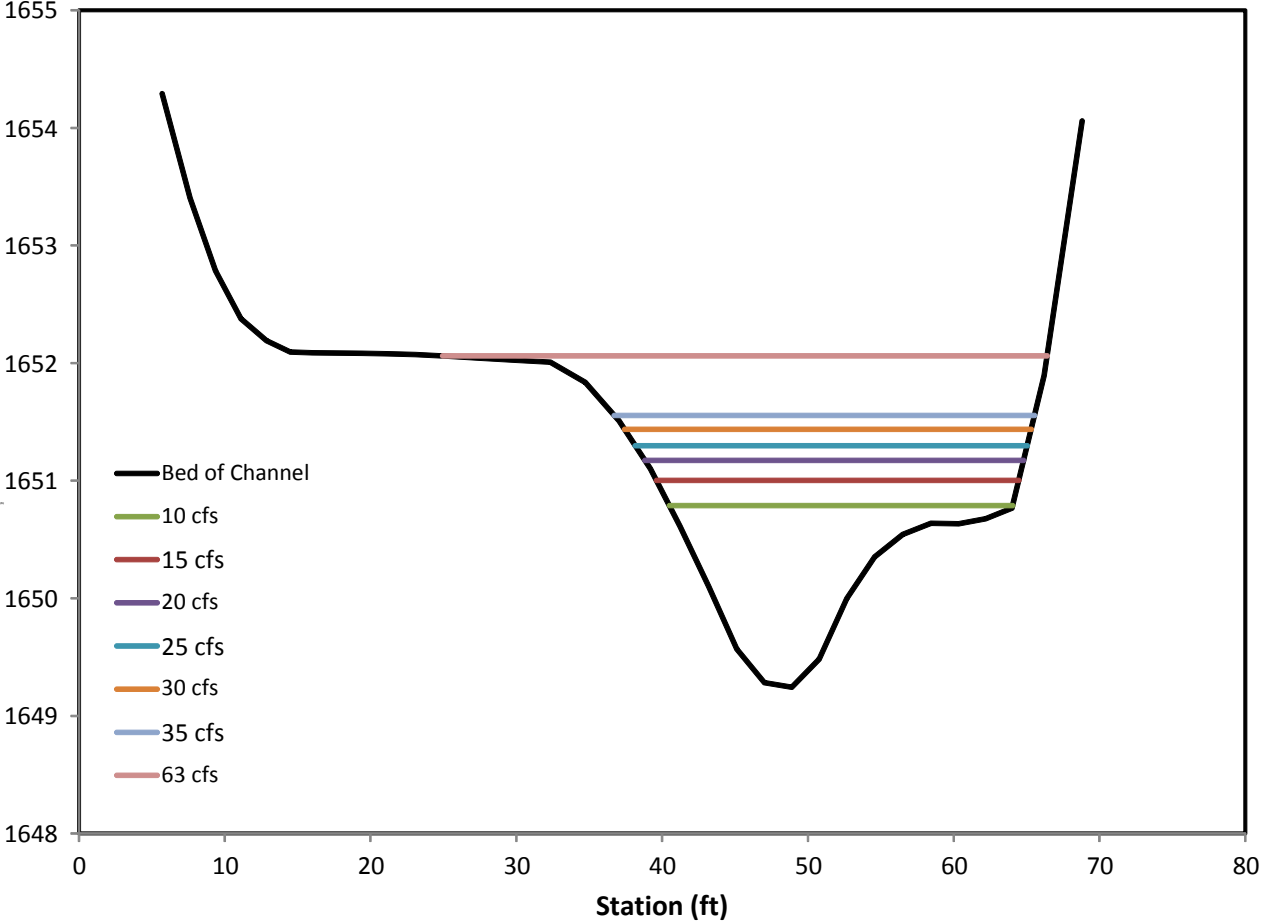


Figure 6. Comparison of predicted average water-surface elevation at Cross-Section 4 for a range of flows from 10 to 63 cfs.

Cross Section 5

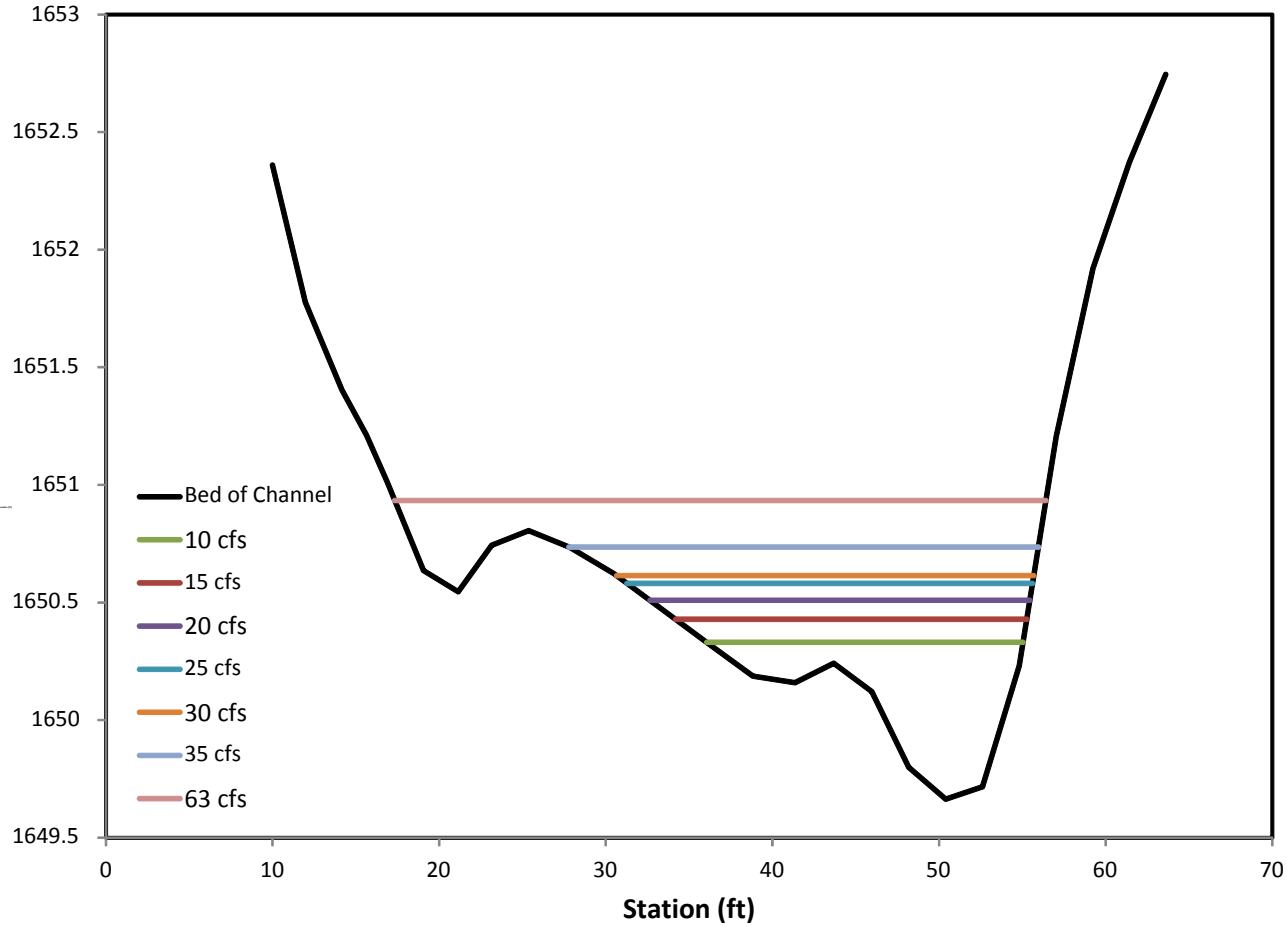


Figure 7. Comparison of predicted average water-surface elevation at Cross-Section 5 for a range of flows from 10 to 63 cfs.

Cross Section 6

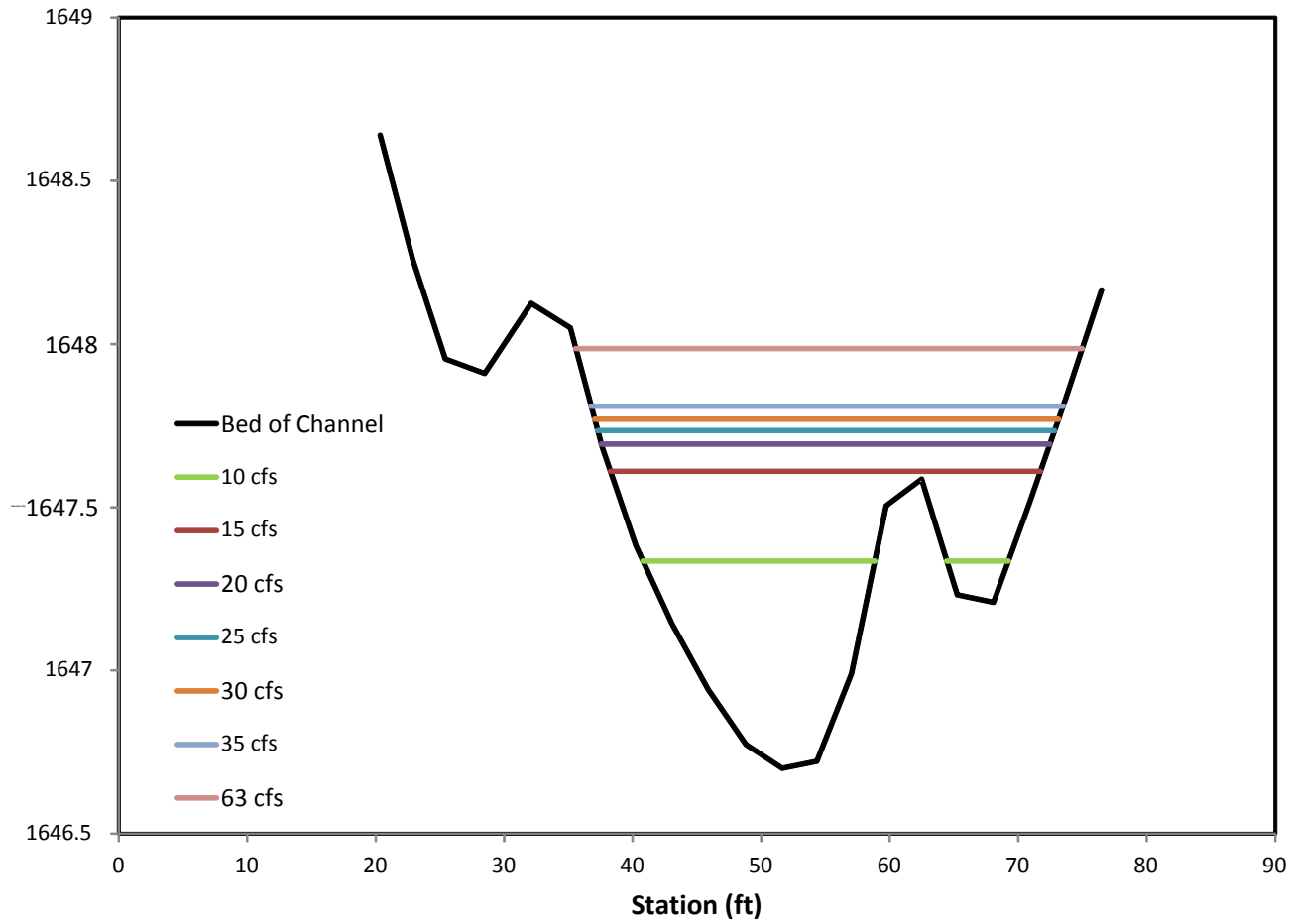


Figure 8. Comparison of predicted average water-surface elevation at Cross-Section 6 for a range of flows from 10 to 63 cfs.

Table 4. Summary of the thalweg elevation and predicted average water-surface elevations at Cross-sections 1 through 6.

Cross-Section	Thalweg (ft)	10cfs	15cfs	20cfs	25cfs	30cfs	35cfs	63cfs
1	1654.8	1667.5	1667.7	1667.8	1667.9	1668.0	1668.1	1668.4
2	1662.3	1662.9	1663.0	1663.1	1663.1	1663.2	1663.2	1663.5
3	1634.8	1650.8	1651.0	1651.2	1651.3	1651.4	1651.6	1652.1
4	1649.2	1650.8	1651.0	1651.2	1651.3	1651.4	1651.5	1652.0
5	1649.7	1650.3	1650.4	1650.5	1650.6	1650.6	1650.7	1650.9
6	1646.7	1647.3	1647.6	1647.7	1647.7	1647.8	1647.8	1648.0